Name: Date:

## FOIL when $A \neq 1$ SLTN (version 104)

## FOIL the expressions shown below:

1. 
$$(-7x+6)(-2x-8)$$

$$(-7)(-2)x^{2} + (-7)(-8)x + (6)(-2)x + (6)(-8)$$
$$(14)x^{2} + (56)x + (-12)x + (-48)$$
$$14x^{2} + 44x - 48$$

2. 
$$(3x-3)(9x+7)$$

$$(3)(9)x^{2} + (3)(7)x + (-3)(9)x + (-3)(7)$$
$$(27)x^{2} + (21)x + (-27)x + (-21)$$
$$27x^{2} - 6x - 21$$

3. 
$$(5x+6)(8x+4)$$

$$(5)(8)x^{2} + (5)(4)x + (6)(8)x + (6)(4)$$
$$(40)x^{2} + (20)x + (48)x + (24)$$
$$40x^{2} + 68x + 24$$

4. 
$$(-9x-2)(-3x+5)$$

$$(-9)(-3)x^{2} + (-9)(5)x + (-2)(-3)x + (-2)(5)$$
$$(27)x^{2} + (-45)x + (6)x + (-10)$$
$$27x^{2} - 39x - 10$$

5. 
$$(6x-2)(9x+3)$$

$$(6)(9)x^{2} + (6)(3)x + (-2)(9)x + (-2)(3)$$
$$(54)x^{2} + (18)x + (-18)x + (-6)$$
$$54x^{2} - 6$$

## FOIL the expressions shown below:

6. 
$$(-7x-2)(9x+7)$$

$$(-7)(9)x^{2} + (-7)(7)x + (-2)(9)x + (-2)(7)$$
$$(-63)x^{2} + (-49)x + (-18)x + (-14)$$
$$-63x^{2} - 67x - 14$$

7. 
$$(-3x+5)(-8x+7)$$

$$(-3)(-8)x^{2} + (-3)(7)x + (5)(-8)x + (5)(7)$$
$$(24)x^{2} + (-21)x + (-40)x + (35)$$
$$24x^{2} - 61x + 35$$

8. 
$$(-5x-8)(-5x+4)$$

$$(-5)(-5)x^{2} + (-5)(4)x + (-8)(-5)x + (-8)(4)$$
$$(25)x^{2} + (-20)x + (40)x + (-32)$$
$$25x^{2} + 20x - 32$$

9. 
$$(-7x+4)(2x-5)$$

$$(-7)(2)x^{2} + (-7)(-5)x + (4)(2)x + (4)(-5)$$
$$(-14)x^{2} + (35)x + (8)x + (-20)$$
$$-14x^{2} + 43x - 20$$

10. 
$$(3x+6)(-8x-2)$$

$$(3)(-8)x^{2} + (3)(-2)x + (6)(-8)x + (6)(-2)$$
$$(-24)x^{2} + (-6)x + (-48)x + (-12)$$
$$-24x^{2} - 54x - 12$$